

Hy-Lok Clean Fittings

for weld & Metal gasket face seal

Catalog No. H - 250CF
Jan. 2003



HY-LOK CORPORATION

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General Information

In order to complete our line in tube and pipe fitting instrumentation and process and according the demand of our client in domestic and in the world we developed a complet new line of clean fittings for high purity industry-semi-conductor.

Hope clean fittings made from 316L AOD/VAR, 316L VIM/VAR,are supplied in B.A.or electro polished, cleaned and packed on vacuum in triple baggage ultra clean polyethylene in 100 class clean room, to meet the severe demand of semi-conductor industries.

The Hope clean weld fittings and metal gasket face seal fittings are manufactured from material in accordance with ASME SA-479 and ASTM A-276, and calculated in accordance with ANSI B 31.3 for allowable pressure rating value of 20,000 PSI (equivalent ASTM A269-tubing) wall thickness show in table, 1.

Table 1. Allowable Working Pressure for weld ends.

T Tube O.D.	Nominal Wall Thickness		Working Pressure	
	Inches	mm	PSIG	Bar
1/4	0.035	0.889	5100	351
3/8	0.035	0.889	3300	227
1/2	0.049	1.245	3500	241
3/4	0.049	1.245	2400	165
1	0.065	1.651	2400	165
6mm	-	0.97	6400	440
8mm	-	0.94	4700	330
10mm	-	0.94	3760	260
12mm	-	1.02	3300	230

Temperature Derating

Pressure ratings for fittings are also determined by temperature applied on fittings surface. Allowable working pressure at elevated temperatures could be obtained by multiplying factors shown in table 2

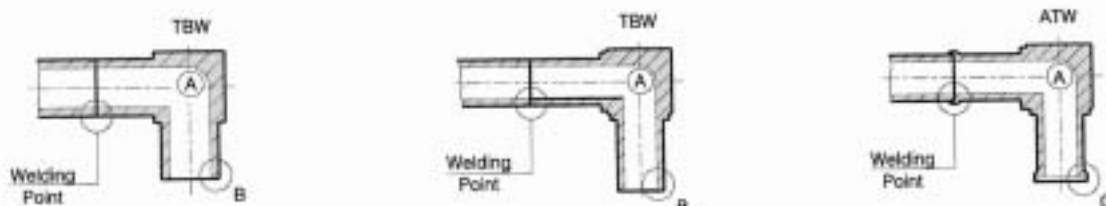
Table 2. Derating Factors

Temperature (F)	Factors
100	1.0
200	1.0
300	1.0
400	0.96
500	0.90
600	0.85
700	0.82
800	0.79
900	0.78
1000	0.76

Feature

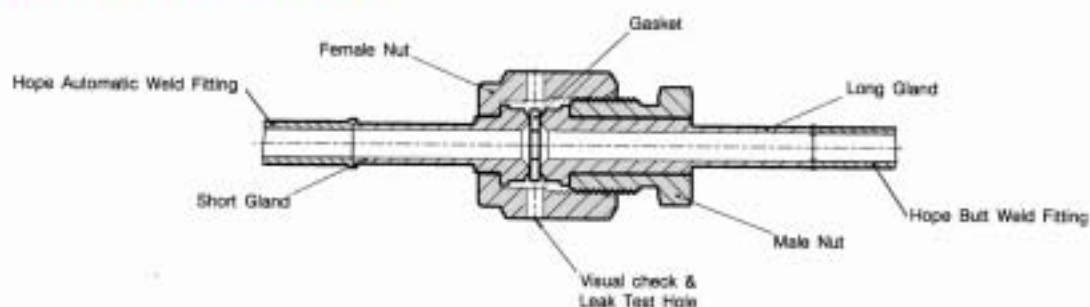
- Hope clean fittings are applicable for two welding shapes of TBW (Tube Automatic Butt Weld) and ATW (Tube Automatic Weld) which could be choosed for proper usages.
- This type is machined to optimistic condition for Butt Welding by Automatic TIG welder selected for recent Ultrahigh pure fluid flow system.

■ Mini and long Tube Automatic Butt Weld Fittings with and without shoulder.



- A: Radius Junction for smooth flow transition and eliminate pockets and entrapment zones.
- B: Square sharp burr free tube weld end.
- C: Good controlled distance of the tube stub: The type with shoulder is adaptable for automatic welding especially where space is limited.
- Tolerance: Extremely stable and precise wall thickness and circularity are available through precised machining process and strict quality control.
- High purity internal surface (See Table 3.)

■ Metal gasket face seal fittings



- Female Nut-The internal surface of the nuts is silver plated to avoid galling and reduce the tightening torque.
- Gasket-Silver plated made from stainless steel 316, and nickel plated, unplated nickel or special request.
- Variety of shapes and type of fittings.
- High purity internal surface (See Table 3.)

■ Internal Surface Levels.

Table 3. Surface Levels

LEVEL	MATERIAL	R max (μm)	EP	Packing Standard 100 class
B.A.	316L or AOD VAR	≤ 2.5	NA	Double
H(HIGH)	AOD VAR or VIM VAR	≤ 1	Yes	Double
S(SUPER)	VIM VAR	≤ 0.4	Yes	Triple

■ Heat Code Traceability

All HOPE Clean Weld and Metal gasket face seal fittings are marked with the heat code No. of the material and supply with full documentation for full traceability, according to HY-LOK CORPORATION standard.

■ Marking procedure

Hope clean fitting is marked as standard with ① trade mark, ② part No., ③ material, ④ internal surface level, ⑤ heat code designation as shown in the example below.

Example



■ Packing and Handling

Hope clean fittings are triple packed with antistatic polyethylene bag high purity nitrogen gas has been pressured into. Care shall be considered to maintain cleanliness.

- To maintain and transport in triple-pack condition.
- To remove particles from first package, then open the 1st package before carrying into clean room.
- To move in double pack condition in clean room and take off the 2nd package while using.
- Do not remove the 3rd package just before the practical welding is applied.

Ordering Information

H	MLA	8	6	A	S	316L
1	2	3	4	5	6	7

1. Hope clean Fitting : Designator "H"
2. Name of Fitting : See Name of Fitting Designator.
3. Tube O.D. : See Tube O.D. Designator.
4. Reduced Ends : See Reducing Tube O.D. Designator.

5. Type of Weld : See Weld Designator
6. Surface Grade : See Surface Designator.
7. Material : See Material Designator.

Name of Fitting Designator	
Description	Identifier
Union Elbow	MLA
Union Tee	MTA
Union Cross	MXA
Long Elbow	ML
Long Tee	MT
Long Cross	MX

Surface Designator			
Grade	BA Grade	High Grade	Super Grade
Identifier	B	H	S

Material Designator		
Material	316L AOD / VAR Stainless Steel	316L VIM / VAR Stainless Steel
Identifier	316L	VV6L

Tube O.D. Designator			
Tube O.D. (Inch)	1/4	3/8	1/2
Identifier	4	6	8
Tube O.D. (Metric)	6mm	8mm	12mm
Identifier	6M	8M	12M

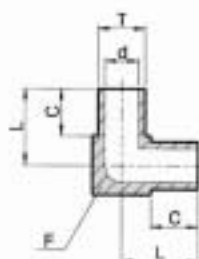
Reducing Tube O.D. Designator			
Tube O.D. (Inch)	1/4	3/8	1/2
Identifier	4	6	8
Tube O.D. (Metric)	6mm	8mm	12mm
Identifier	6M	8M	12M

Weld Designator	
Type of Weld	Identifier
Butt Weld (Without Shoulder)	Not Applicable
Automatic Weld (With Shoulder)	A
Socket Weld	S
Male Weld	M



Mini Elbow

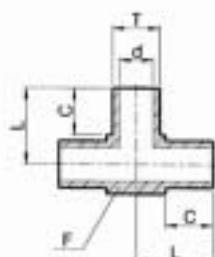
H - MLA



Part Number	T Tube O.D.	d		L		C		F Body Cube
		mm	inch	mm	inch	mm	inch	
H-MLA- 4	1/4	4.55	0.18	10.4	0.41	6.35	0.25	5/16
H-MLA- 6	3/8	7.67	0.30	11.9	0.47	6.35	0.25	7/16
H-MLA- 8	1/2	10.14	0.40	13.5	0.53	6.35	0.25	9/16
H-MLA- 6M	6mm	4.06	0.16	10.4	0.41	6.35	0.25	5/16
H-MLA- 8M	8mm	6.12	0.24	11.9	0.47	6.35	0.25	7/16
H-MLA-10M	10mm	8.12	0.32	11.9	0.47	6.35	0.25	7/16
H-MLA-12M	12mm	9.96	0.39	13.5	0.53	6.35	0.25	9/16

Mini Tee

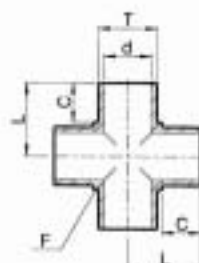
H - MTA



Part Number	T Tube O.D.	d		L		C		F Body Cube
		mm	inch	mm	inch	mm	inch	
H-MTA- 4	1/4	4.55	0.18	10.4	0.41	6.35	0.25	5/16
H-MTA- 6	3/8	7.67	0.30	11.9	0.47	6.35	0.25	7/16
H-MTA- 8	1/2	10.14	0.40	13.5	0.53	6.35	0.25	9/16
H-MTA- 6M	6mm	4.06	0.16	10.4	0.41	6.35	0.25	5/16
H-MTA- 8M	8mm	6.12	0.24	11.9	0.47	6.35	0.25	7/16
H-MTA-10M	10mm	8.12	0.32	11.9	0.47	6.35	0.25	7/16
H-MTA-12M	12mm	9.96	0.39	13.5	0.53	6.35	0.25	9/16

Mini Cross

H - MXA

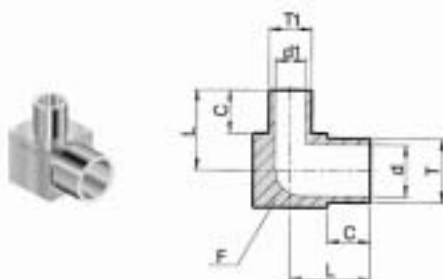


Part Number	T Tube O.D.	d		L		C		F Body Cube
		mm	inch	mm	inch	mm	inch	
H-MXA- 4	1/4	4.55	0.18	10.4	0.41	6.35	0.25	5/16
H-MXA- 6	3/8	7.67	0.30	11.9	0.47	6.35	0.25	7/16
H-MXA- 8	1/2	10.14	0.40	13.5	0.53	6.35	0.25	9/16
H-MXA- 6M	6mm	4.06	0.16	10.4	0.41	6.35	0.25	5/16
H-MXA- 8M	8mm	6.12	0.24	11.9	0.47	6.35	0.25	7/16

Dimensions are reference only, subject to change.

Mini Reducing Elbow

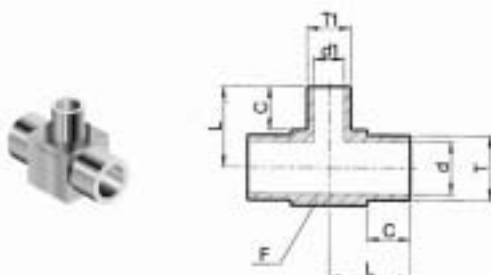
H - MLA



Part Number	T Tube O.D.	T ₁ Tube O.D.	d	d ₁	L	C	F	Body Cube
H-MLA 6-4	3/8	1/4	7.67	4.55	11.9	0.47	6.35	0.25
H-MLA 8-4	1/2	1/4	10.14	4.55	13.5	0.53	6.35	0.25
H-MLA 8M-6M	8mm	6mm	6.12	4.06	11.9	0.47	6.35	0.25
H-MLA12M-6M	12mm	6mm	9.96	4.06	13.5	0.53	6.35	0.25

Mini Reducing Tee

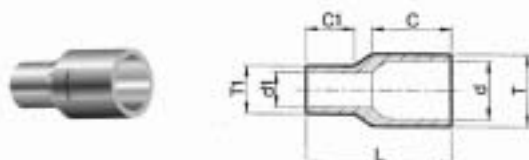
H - MTA



Part Number	T Tube O.D.	T ₁ Tube O.D.	d	d ₁	L	C	F	Body Cube
H-MTA 6-4	3/8	1/4	7.67	4.55	11.9	0.47	6.35	0.25
H-MTA 8-4	1/2	1/4	10.14	4.55	13.5	0.53	6.35	0.25
H-MTA 8M-6M	8mm	6mm	6.12	4.06	11.9	0.47	6.35	0.25
H-MTA12M-6M	12mm	6mm	9.96	4.06	13.5	0.53	6.35	0.25

Mini Reducing Coupling

H - MCA

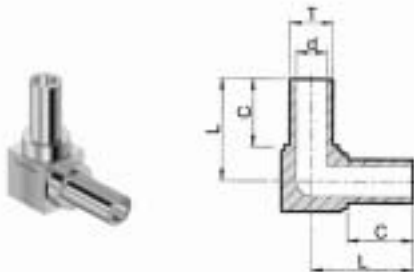


Part Number	T Tube O.D.	T ₁ Tube O.D.	d	d ₁	L	C	C ₁	C ₁
H-MCA 6-4	3/8	1/4	7.67	4.55	19.05	0.75	10.41	0.41
H-MCA 8-4	1/2	1/4	10.14	4.55	19.05	0.75	10.41	0.41
H-MCA 8-6	1/2	3/8	10.14	7.67	19.05	0.75	10.41	0.41

Dimensions are reference only, subject to change.

Long Elbow without Shoulder

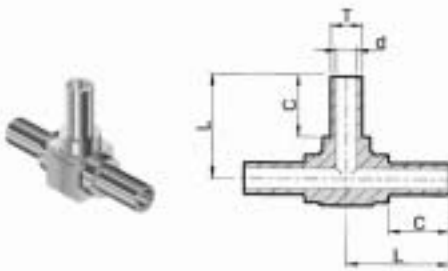
H - ML



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - ML - 4	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - ML - 6	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - ML - 8	1/2	10.14	0.40	30.0	1.18	19.05	0.75
H - ML - 6M	6mm	4.06	0.16	26.9	1.06	19.05	0.75
H - ML - 8M	8mm	6.12	0.24	26.9	1.06	19.05	0.75
H - ML - 10M	10mm	8.12	0.32	26.9	1.06	19.05	0.75
H - ML - 12M	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Long Tee without shoulder

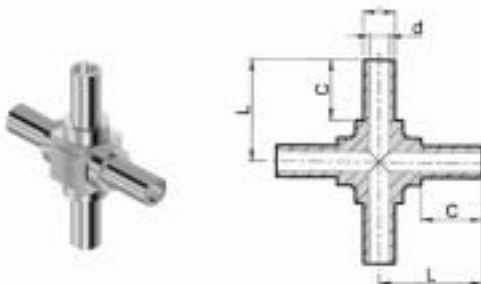
H - MT



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - MT - 4	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - MT - 6	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - MT - 8	1/2	10.14	0.40	30.0	1.18	19.05	0.75
H - MT - 6M	6mm	4.06	0.16	26.9	1.06	19.05	0.75
H - MT - 8M	8mm	6.12	0.24	26.9	1.06	19.05	0.75
H - MT - 10M	10mm	8.12	0.32	26.9	1.06	19.05	0.75
H - MT - 12M	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Long Cross without shoulder

H - MX

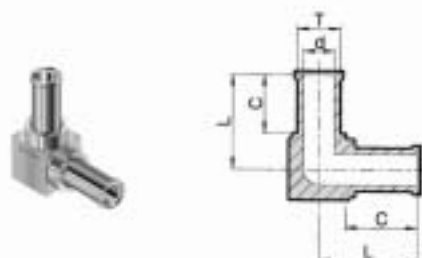


Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - MX - 4	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - MX - 6	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - MX - 8	1/2	10.14	0.40	30.0	1.18	19.05	0.75

Dimensions are reference only, subject to change.

Long Elbow with Shoulder

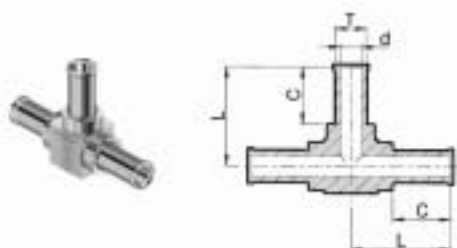
H - ML - A



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - ML - 4A	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - ML - 6A	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - ML - 8A	1/2	10.14	0.40	30.0	1.18	19.05	0.75
H - ML - 6MA	6mm	4.06	0.16	26.9	1.06	19.05	0.75
H - ML - 8MA	8mm	6.12	0.24	26.9	1.06	19.05	0.75
H - ML - 10MA	10mm	8.12	0.32	26.9	1.06	19.05	0.75
H - ML - 12MA	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Long Tee with Shoulder

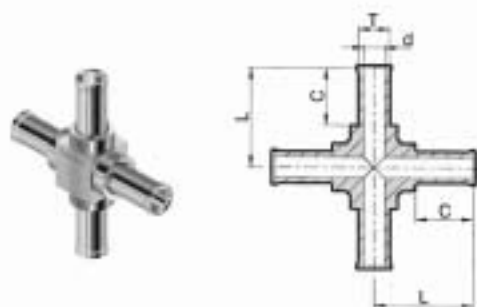
H - MT - A



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - MT - 4A	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - MT - 6A	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - MT - 8A	1/2	10.14	0.40	30.0	1.18	19.05	0.75
H - MT - 6MA	6mm	4.06	0.16	26.9	1.06	19.05	0.75
H - MT - 8MA	8mm	6.12	0.24	26.9	1.06	19.05	0.75
H - MT - 10MA	10mm	8.12	0.32	26.9	1.06	19.05	0.75
H - MT - 12MA	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Long Cross with Shoulder

H - MX - A

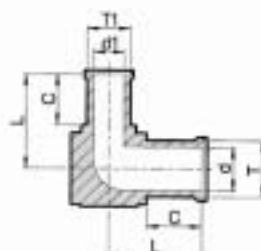


Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - MX - 4A	1/4	4.55	0.18	26.9	1.06	19.05	0.75
H - MX - 6A	3/8	7.67	0.30	26.9	1.06	19.05	0.75
H - MX - 8A	1/2	10.14	0.40	30.0	1.18	19.05	0.75
H - MX - 6MA	6mm	4.06	0.16	26.9	1.06	19.05	0.75
H - MX - 8MA	8mm	6.12	0.24	26.9	1.06	19.05	0.75
H - MX - 10MA	10mm	8.12	0.32	26.9	1.06	19.05	0.75
H - MX - 12MA	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Dimensions are reference only, subject to change.

Long Reducing Elbow with Shoulder

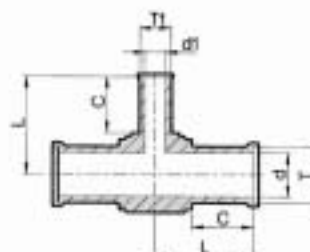
H - ML - A



Part Number	T Tube O.D.	T ₁ Tube O.D.	d	d ₁	L		C	
			mm	mm	mm	inch	mm	inch
H - ML6 - 4A	3/8	1/4	7.67	4.55	26.9	1.06	19.05	0.75
H - ML8 - 4A	1/2	1/4	10.14	4.55	30.0	1.18	19.05	0.75

Long Reducing Tee with Shoulder

H - MT - A



Part Number	T Tube O.D.	T ₁ Tube O.D.	d	d ₁	L		C	
			mm	mm	mm	inch	mm	inch
H - MT6 - 4A	3/8	1/4	7.67	4.55	26.9	1.06	19.05	0.75
H - MT8 - 4A	1/2	1/4	10.14	4.55	30.0	1.18	19.05	0.75
H-MT12M-6MA	12mm	6mm	9.96	6.12	30.0	1.18	19.05	0.75

Dimensions are reference only, subject to change.

Ordering Information

H
VUA
8
6
A
S
316L
1
2
3
4
5
6
7

1. Hope clean Fitting : Designator "H"
2. Name of Fitting : See Name of Fitting Designator.
3. Tube O.D. : See Tube O.D. Designator.
4. Reduced Ends : See Reducing Tube O.D. and Pipe Thread Designator

5. Type of Weld : See Weld Designator
6. Surface Grade : See Surface Designator.
7. Material : See Material Designator.

Name of Fitting Designator

Description	Identifier
Female Nut	VFN
Male Nut	VMN
Gland Plug	VGP
Plug	VP
Cap	VCP
Gasket	VGSK
Mini Short Gland	VMSG
Mini Long Gland	VMLG
Short Gland	VSG
Long Gland	VLG
Male Weld Gland	VGM
Socket Weld Gland	VGS
Swivel Union	VSUA
Swivel Male Connector	VSMC
Swivel Male Union	VSMU
Union	VUA
Union Elbow	VLA
Union Tee	VTA
Union Cross	VXA
Male Connector	VMC
Female Connector	VFC
Bulkhead Union	VBUH
Reducing Union	VUR
Hy-Lok Union To Face Seal	VHU

Weld Designator

Type of Weld	Identifier
Butt Weld (Without Shoulder)	Not Applicable
Automatic Weld (With Shoulder)	A
Socket Weld	S
Male Weld	M

Tube O.D. Designator

Tube O.D. (Inch)	1/4	3/8	1/2
Identifier	4	6	8
Tube O.D. (Metric)	6mm	8mm	12mm
Identifier	6M	8M	12M

Reducing Tube O.D. and Pipe Thread Designator

Tube O.D. (Inch)	1/4	3/8	1/2
Identifier	4	6	8
Tube O.D. (Metric)	6mm	8mm	12mm
Identifier	6M	8M	12M
Pipe Thread (ANSI B1.20.1)	1/4 NPT	3/8 NPT	1/2 NPT
Identifier	4N	6N	8N

Surface Designator

Grade	B.A Grade	High Grade	Super Grade
Identifier	B	H	S

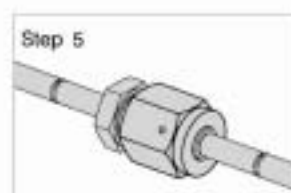
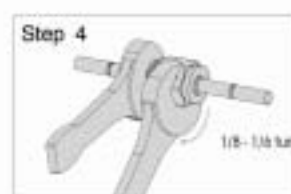
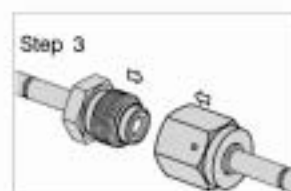
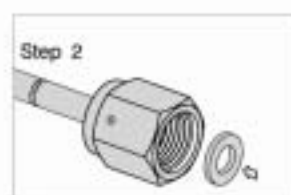
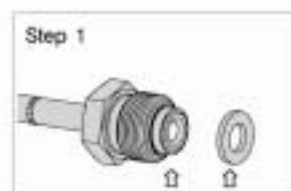
Material Designator

Material	316L AOD / VAR Stainless Steel	316L VIM / VAR Stainless Steel
Identifier	316L	VV6L



Assembly Instruction

- Step 1. While tightening fittings, make sure seal parts and gaskets are free of scratch and dirt.
- Step 2. Insert gasket into female nut and make sure the gasket is correctly settled on proper position. Also make sure no damages on seal part while inserting gasket.
- Step 3. Finger tight until each components are contacted together and make sure seal part and gasket is placed in proper position which could be easily inspected.
- Step 4. Final tightening shall be completed by assembly tool such as two spanners. Tighten the female nut $1/8 \sim 1/6$ turns with spanner by holding male nut or fitting body with second spanner and make sure that components screwing except female nut could damage the seal part to reduce the seal capacity.
- Step 5. Make sure seal part and gasket is placed in proper position and then complete fighting in final.

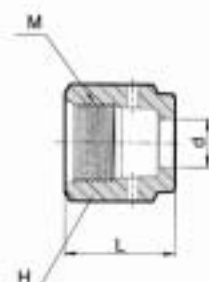


Care for Installation

1. Brand-new gasket shall be used when re-tightening.
2. Pack and cap shall be open or taken off just before usage to maintain cleanliness and to avoid damages on the seal parts.
3. Welded tube and Metal gasket seal fitting shall be assembled in alignment. Improper pull-up, which causes unperfect seal, could result from unalignment or unproper tubing length.
4. Internal thread of female nut is silver coated to avoid galling while tightening. If the silver-coating is removed while chemical polishing or vacuum brazing, be sure to be careful there's a chance of galling.

Female Nut

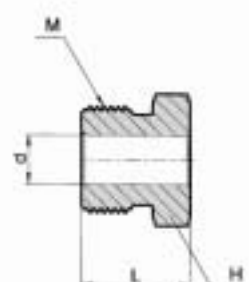
H - VFN



Part Number	T Tube O.D.	d		L		H	M UN, UNF(U)
		mm	inch	mm	inch	inch	
H - VFN - 4	1/4	9.15	0.36	20.6	0.81	3/4	9/16-18
H - VFN - 8	1/2	15.5	0.61	22.4	0.88	1-1/16	7/8-14

Male Nut

H - VMN



Part Number	T Tube O.D.	d		L		H	M UN, UNF(U)
		mm	inch	mm	inch	inch	
H - VMN - 4	1/4	9.15	0.36	18.0	0.71	5/8	9/16-18
H - VMN - 8	1/2	15.05	0.61	20.6	0.81	15/16	7/8-14

Gland Plug

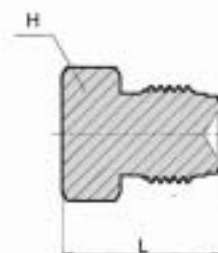
H - VGP



Part Number	T Tube O.D.	L	
		mm	inch
H - VGP - 4	1/4	18.0	0.71
H - VGP - 8	1/2	20.6	0.81

Plug

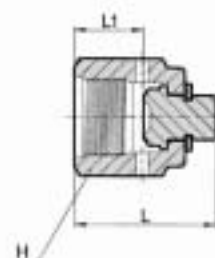
H - VP



Part Number	T Tube O.D.	L		H
		mm	inch	inch
H - VP - 4	1/4	23.4	0.92	5/8
H - VP - 8	1/2	27.4	1.08	15/16

Cap

H - VCP



Part Number	T Tube O.D.	L		L ₁		H
		mm	inch	mm	inch	inch
H - VCP - 4	1/4	23.9	0.94	11.3	0.44	3/4
H - VCP - 8	1/2	25.6	1.01	11.4	0.45	1-1/16

Dimensions are reference only, subject to change.

Gasket

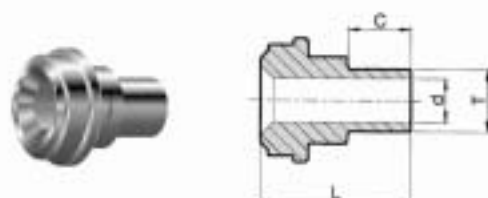
H - VGSK



Part Number	T Tube O.D.	d		D		L	
		mm	inch	mm	inch	mm	inch
H - VGSK - 4	1/4	5.6	0.22	12.5	0.49	0.8	0.03
H - VGSK - 8	1/2	11.2	0.44	20	0.79	0.8	0.03

Mini Short Gland

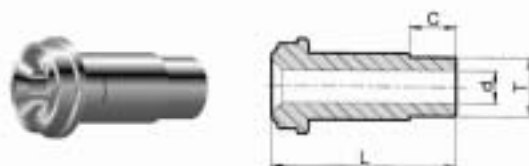
H - VMSG



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VMSG - 4	1/4	4.55	0.18	15.2	0.60	6.35	0.25
H - VMSG - 6	3/8	7.67	0.30	15.8	0.62	6.35	0.25
H - VMSG - 8	1/2	10.14	0.40	15.8	0.62	6.35	0.25
H - VMSG - 6M	6mm	4.06	0.16	15.2	0.60	6.35	0.25
H - VMSG - 8M	8mm	6.12	0.24	15.8	0.62	6.35	0.25
H - VMSG - 10M	10mm	8.12	0.32	15.8	0.62	6.35	0.25
H - VMSG - 12M	12mm	9.96	0.39	15.8	0.62	6.35	0.25

Mini Long Gland

H - VMLG



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VMLG - 4	1/4	4.55	0.18	30.5	1.20	6.35	0.25
H - VMLG - 6	3/8	7.67	0.30	32.8	1.29	6.35	0.25
H - VMLG - 8	1/2	10.14	0.40	32.8	1.29	6.35	0.25
H - VMLG - 6M	6mm	4.06	0.16	31.0	1.22	6.35	0.25
H - VMLG - 8M	8mm	6.12	0.24	31.2	1.23	6.35	0.25
H - VMLG - 10M	10mm	8.12	0.32	32.8	1.29	6.35	0.25
H - VMLG - 12M	12mm	9.96	0.39	33.8	1.33	6.35	0.25

Dimensions are reference only, subject to change.

Short Gland H - VSG



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VSG - 4	1/4	4.55	0.18	27.9	1.10	19.05	0.75
H - VSG - 6	3/8	7.67	0.30	28.4	1.12	19.05	0.75
H - VSG - 8	1/2	10.14	0.40	28.4	1.12	19.05	0.75
H - VSG - 6M	6mm	4.06	0.16	29.5	1.16	19.05	0.75
H - VSG - 8M	8mm	6.12	0.24	29.5	1.16	19.05	0.75
H - VSG - 10M	10mm	8.12	0.32	28.4	1.12	19.05	0.75
H - VSG - 12M	12mm	9.96	0.39	30.0	1.18	19.05	0.75

Long Gland H - VLG



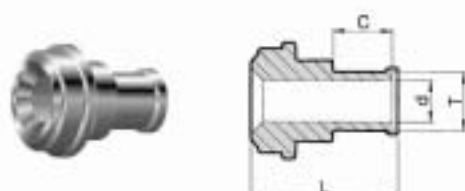
Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VLG - 4	1/4	4.55	0.18	43.2	1.70	19.05	0.75
H - VLG - 6	3/8	7.67	0.30	45.5	1.79	19.05	0.75
H - VLG - 8	1/2	10.14	0.40	45.5	1.79	19.05	0.75
H - VLG - 6M	6mm	4.06	0.16	43.2	1.70	19.05	0.75
H - VLG - 8M	8mm	6.12	0.24	43.2	1.70	19.05	0.75
H - VLG - 10M	10mm	8.12	0.32	45.5	1.79	19.05	0.75
H - VLG - 12M	12mm	9.96	0.39	45.5	1.79	19.05	0.75

Male Weld Gland H - VGM



Part Number	T Tube O.D.	d		D		L		C	
		mm	inch	mm	inch	mm	inch	mm	inch
H - VGM - 4	1/4	4.55	0.18	8.89	0.35	33.3	1.31	10.4	0.41
H - VGM - 8	1/2	10.14	0.40	15.24	0.60	38.1	1.50	12.7	0.50

Mini Short Gland with Shoulder H - VMSG - A



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H-VMSG- 4A	1/4	4.55	0.18	15.7	0.62	6.35	0.25
H-VMSG- 6A	3/8	7.67	0.30	16.6	0.65	6.35	0.25
H-VMSG- 8A	1/2	10.14	0.40	16.8	0.66	6.35	0.25
H-VMSG- 6MA	6mm	4.06	0.16	15.7	0.62	6.35	0.25
H-VMSG- 8MA	8mm	6.12	0.24	16.6	0.65	6.25	0.25
H-VMSG-10MA	10mm	8.12	0.32	16.6	0.65	6.35	0.25
H-VMSG-12MA	12mm	9.96	0.39	16.8	0.66	6.35	0.25

Dimensions are reference only, subject to change.

Short Gland with Shoulder

H - VSG - A



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VSG - 4A	1/4	4.55	0.18	28.4	1.12	19.05	0.75
H - VSG - 6A	3/8	7.67	0.30	29.2	1.15	19.05	0.75
H - VSG - 8A	1/2	10.14	0.40	29.4	1.16	19.05	0.75
H - VSG - 6MA	6mm	4.06	0.16	30.0	1.18	19.05	0.75
H - VSG - 8MA	8mm	6.12	0.24	30.2	1.19	19.05	0.75
H - VSG - 10MA	10mm	8.12	0.32	29.2	1.15	19.05	0.75
H - VSG - 12MA	12mm	9.96	0.39	31.0	1.22	19.05	0.75

Long Gland with Shoulder

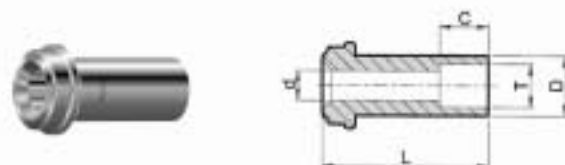
H - VLG - A



Part Number	T Tube O.D.	d		L		C	
		mm	inch	mm	inch	mm	inch
H - VLG - 4A	1/4	4.55	0.18	43.7	1.72	19.05	0.75
H - VLG - 6A	3/8	7.67	0.30	46.2	1.82	19.05	0.75
H - VLG - 8A	1/2	10.14	0.40	46.5	1.83	19.05	0.75
H - VLG - 6MA	6mm	4.06	0.16	43.7	1.72	19.05	0.75
H - VLG - 8MA	8mm	6.12	0.24	43.9	1.73	19.05	0.75
H - VLG - 10MA	10mm	8.12	0.32	46.2	1.83	19.05	0.75
H - VLG - 12MA	12mm	9.96	0.39	46.5	1.83	19.05	0.75

Socket Weld Gland

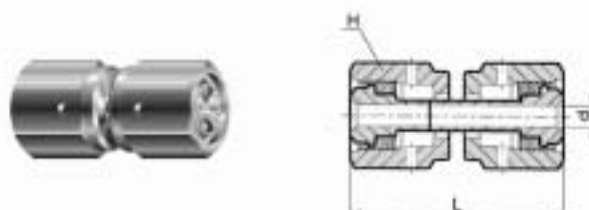
H - VGS



Part Number	T Tube Socket	d		D		L		C	
		mm	inch	mm	inch	mm	inch	mm	inch
H - VGS - 4S	1/4	4.55	0.18	8.9	0.35	33.3	1.31	7.1	0.28
H - VGS - 6S	3/8	7.67	0.30	15.2	0.60	38.1	1.50	7.9	0.31
H - VGS - 8S	1/2	10.14	0.40	15.2	0.60	38.1	1.50	9.7	0.38

Swivel Union

H - VSUA

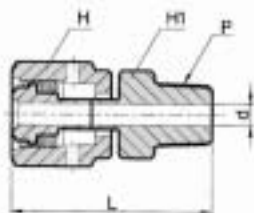


Part Number	T Tube O.D.	d		L		H	Working Pressure	
		mm	inch	mm	inch		Psig	Bar
H - VSUA - 4	1/4	4.55	0.18	43.0	1.69	3/4	5100	351
H - VSUA - 8	1/2	10.14	0.40	55.6	2.19	1-1/16	3500	241

Dimensions are reference only, subject to change.

Swivel Male Connector

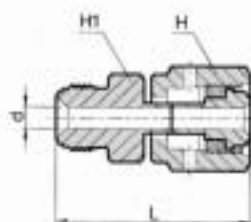
H - VSMC



Part Number	T Tube O.D.	d		L		H	H ₁	P	Working Pressure	
		mm	inch	mm	inch	inch	inch	NPT (N)	Psig	Bar
H-VSMC-4	1/4	4.55	0.18	43.5	1.71	3/4	5/8	1/4	5100	351

Swivel Male Union

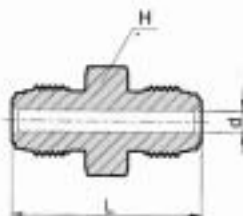
H - VSMU



Part Number	T Tube O.D.	d		L		H	H ₁	Working Pressure	
		mm	inch	mm	inch	inch	inch	Psig	Bar
H-VSMU-4	1/4	4.55	0.18	42.9	1.69	3/4	5/8	5100	351

Union

H - VUA



Part Number	T Tube O.D.	d		L		H	Working Pressure	
		mm	inch	mm	inch	inch	Psig	Bar
H-VUA-4	1/4	4.55	0.18	39.4	1.55	5/8	14300	985
H-VUA-8	1/2	10.14	0.40	46.7	1.84	15/16	10900	750

Elbow

H - VLA

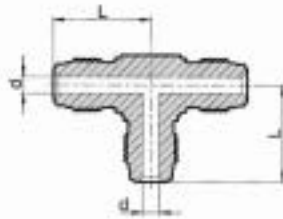


Part Number	T Tube O.D.	d		L		Working Pressure	
		mm	inch	mm	inch	Psig	Bar
H - VLA - 4	1/4	4.55	0.18	27.2	1.07	14300	985
H - VLA - 8	1/2	10.14	0.40	36.8	1.45	10900	750

Dimensions are reference only, subject to change.

Tee

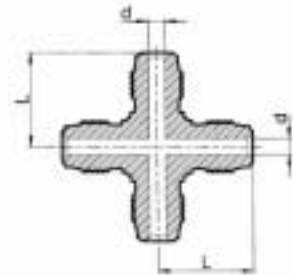
H - VTA



Part Number	Tube O.D.	d		L		Working Pressure	
		mm	inch	mm	inch	Psig	Bar
H-VTA-4	1/4	4.55	0.18	27.2	1.07	14300	985
H-VTA-8	1/2	10.14	0.40	36.8	1.45	10900	750

Cross

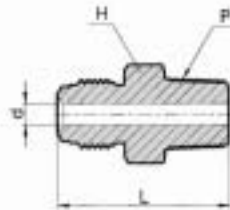
H - VXA



Part Number	Tube O.D.	d		L		Working Pressure	
		mm	inch	mm	inch	Psig	Bar
H-VXA-4	1/4	4.55	0.18	27.2	1.07	14300	985
H-VXA-8	1/2	10.14	0.40	36.8	1.45	10900	750

Male Connector

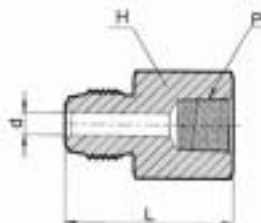
H - VMC



Part Number	Tube O.D.	d		L		H	P	Working Pressure	
		mm	inch	mm	inch	inch	NPT (N)	Psig	Bar
H-VMC4-4N	1/4	4.55	0.18	37.8	1.49	5/8	1/4	8000	550
H-VMC8-6N	1/2	9.65	0.38	41.9	1.65	15/16	3/8	7800	537
H-VMC8-8N	1/2	10.14	0.40	46.7	1.84	15/16	1/2	7700	530

Female Connector

H - VFC

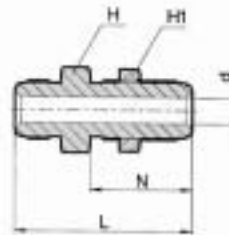


Part Number	Tube O.D.	d		L		H	P	Working Pressure	
		mm	inch	mm	inch	inch	NPT (N)	Psig	Bar
H-VFC4-4N	1/4	4.55	0.18	39.1	1.54	3/4	1/4	6600	450
H-VFC8-6N	1/2	10.14	0.40	44.7	1.76	15/16	3/8	5300	365
H-VFC8-8N	1/2	10.14	0.40	50.5	1.99	1-1/16	1/2	4900	337

Dimensions are reference only, subject to change.

Bulkhead Union

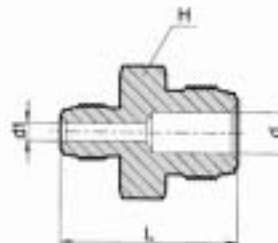
H - VBHU



Part Number	Tube O.D.	d		L		N		H	H ₁	Panel Hole size		Max. Panel Thickness		Working Pressure	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	Psig	Bar
H - VBHU - 4	1/4	4.55	0.18	56.6	2.23	33.0	1.30	3/4	3/4	14.5	0.57	11.1	0.44	14300	985
H - VBHU - 8	1/2	10.14	0.4	65.3	2.57	37.6	1.48	1-1/16	1-1/16	22.5	0.89	12.7	0.5	10900	750

Reducing Union

H - VUR



Part Number	Tube O.D.	Tube O.D.	d		d ₁		L		H	Working Pressure	
			mm	inch	mm	inch	mm	inch	inch	Psig	Bar
H - VURB - 4	1/2	1/4	10.14	0.4	4.55	0.18	43.4	1.71	15/16	10900	750

Hy-Lok Union To Face Seal

H - VHC



Part Number	Tube O.D.	E Tube O.D.	d		L		B		N		H	H ₁	Working Pressure*	
			mm	inch	mm	inch	mm	inch	mm	inch	inch	inch	Psig	Bar
H - VHC4 - 2	1/4	1/8	4.55	0.18	38.6	1.52	12.7	0.5	15.2	0.6	5/8	7/16	14300	985
H - VHC4 - 4	1/4	1/4	4.55	0.18	41.1	1.62	15.2	0.6	17.8	0.7	5/8	9/16	14300	985
H - VHC4 - 6	1/4	3/8	4.55	0.18	43.0	1.7	16.8	0.66	19.3	0.76	11/16	11/16	14300	985
H - VHC8 - 6	1/2	3/8	10.14	0.40	46.7	1.84	16.8	0.66	19.3	0.76	15/16	11/16	10900	750
H - VHC8 - 8	1/2	1/2	10.14	0.40	49.5	1.95	22.9	0.9	21.8	0.86	15/16	7/8	10900	750

*Pressure ratings based on metal gasket seal fitting end.
 Hyupdong catalog (H-200TF) to find tubing max. pressure ratings for use with Hy-Lok tube fittings.
 Dimensions are reference only, subject to change.